

1925

Calvin notes

pp. 140 - 141

77  
..

pp. 142, 143

+ notes p. 144

Also p. 148

cheese

1925

- 1 Dr. William H. Longley
- 2 Dr. David Hill Tenant
- 3 J. M. Valentine
- 4 ~~R. S.~~ W<sup>m</sup> Randolph Taylor
- 5 Paul Conger -
- 6 Harry N Miller
- 7 Dr. Caswell Grase
- 8 Dr. Albert Mann

- 1 Dr. H. Boschma
- 2 Dr. A. V. Wilson

Bartsch last two weeks.

1925

May 30-31 Spent night at Over Sea  
 Hotel had nice 3d floor front room  
 with Conger for \$2.50 each for the night  
 Single paid for meals at Victoria  
 Rest. Dined with Conger 35¢ worth  
 of ice cream each at Curry's  
 { Fare 63.75 of which 15 = sleeper station porter 26¢  
 Check 10¢

Fare 63.75	
including 315 miles	
Friday dinner enroute	1.50
Break. Sat.	.90 car porter
Lunch Sat Jacksonville	.50 { Baggage check 20¢ Gator farm
Station Porter	.90 { Sandwich & milk 25¢
Sat dinner	.10 Evening 35¢
	1.50 cart fare 30¢
Sun. Break.	.80
Car Porter	.35
Papers	.20

June 1. Trip down was uneventful, with Dr. Mann +  
 Conger. Dr. Mann is the best <sup>sort</sup> of a hardly  
 companion, and a joy to be along with.

1925 121

1925 June 2 Fortugaz

Collected with Anger and Miller on  
and in front of first rocks below  
Sat. pier west side of Sargent Head

# 25-1  
had June 1  
on Subel

Key: 1 large Mithrax hispidus ♀\*  
Miller got a lot of Clibanaria  
tridens and Calcinus tibicen.  
Some amphipods and isopods  
washed from sea weed

\* A number of Mithrax come from holes in  
rock.  
Found under large rock which I over turned

I found the first rocks ad in  
the eel patches off of them certainly  
seems richer in point & numbers than  
last year. The small sea urchins  
planted here have reach a good size  
as large as any that Tennen used  
in his experiments last year, which  
Dr. Spragge said indicates a year's  
growth. Can it not be that it is the  
second year, the small half dollar sea  
urchin one yrs. old.

Valentine brought in an Ocyptode from the beach

June 3. Went out for netting with H. Mann  
and Conger. Got a lot of pelagic  
stiff copepods, and Sennite which  
was not represented in last ~~years~~  
collections.

#25-2 Taylor brought me a Mithrax  
sculptus from the fort and a  
Callianassa

#25-3 In afternoon went down on rocks  
about west side lighthouse pier  
and did some collecting mostly  
Mithrax comptus and sculptus. Took  
through 8 Pumna shells but got  
nothing in ~~afternoon~~ after supper.  
Scattered Pumna bodies on sand in  
cove at north end of Dogger Head  
key and saw one Hippa bimac in  
sand with her

June 3 Found a Hippa by shoveling remains of Pinna ~~shell~~ bodies along beach in little cave at north end of island. Shortly afterward saw a small one scatter into sand where I happened to be looking, but not near any Pinna meat so far as I could see. I scooped up a double hand full of sand, and there I had it; put it in a beaker and there found

June 4<sup>th</sup> Will stand quite a lot of poking & Sust. tr antennulae, which are white just out of oral sand. Back is black speckled, so that when exposed looks like white sand and black intestines. If touched from behind rotates backward in much bothered cases making a complete revolution so that it heads other way. Seems almost if not incapable of going forward, sickle shaped dactylas terminal joints of appendages all working in rotation & alternation, quickly by animal. Mostly just antennulae flagella only exposed; and after little ~~space~~ space with eyes and antennulae peduncle sticking out.

*Shifted  
position twice  
in 45 mins*

June 4<sup>th</sup> 1911

at 11.15 still  
couldn't find  
still at 2.00  
found atemone out  
after return about 4.30

$\left\{ \begin{array}{l} 4 \text{ mins of nine} \\ \text{pulled under} \end{array} \right\}$

To a full minute poked and shined  
and put glass rod on tip of antennule  
twirled it on the point did not respond  
but as soon as I took hold with forceps  
(but as long as I didn't pull didn't mind)  
and gave a pull it backed up and  
pulled entire body back and under.

I poked with animal again no matter  
what I do will not go forward. It  
certainly looks as though it is in -  
capable of forward movement.

When the antennules lie on ground look  
just like ~~broken~~<sup>straight</sup> edge of ~~mother~~<sup>mother</sup> shell.

June 13

Yesterday I noticed particularly  
that the animal used a sort  
of circular motion in trying to  
dig in, hadn't noticed it before.  
may be used this method because  
weaker. therefore died three days ago  
would spin itself more or less like  
a wobbly top on hinder end, in  
getting under sand especially where  
the air glass bottom

~~Bush Key  
June 5  
#25-47~~

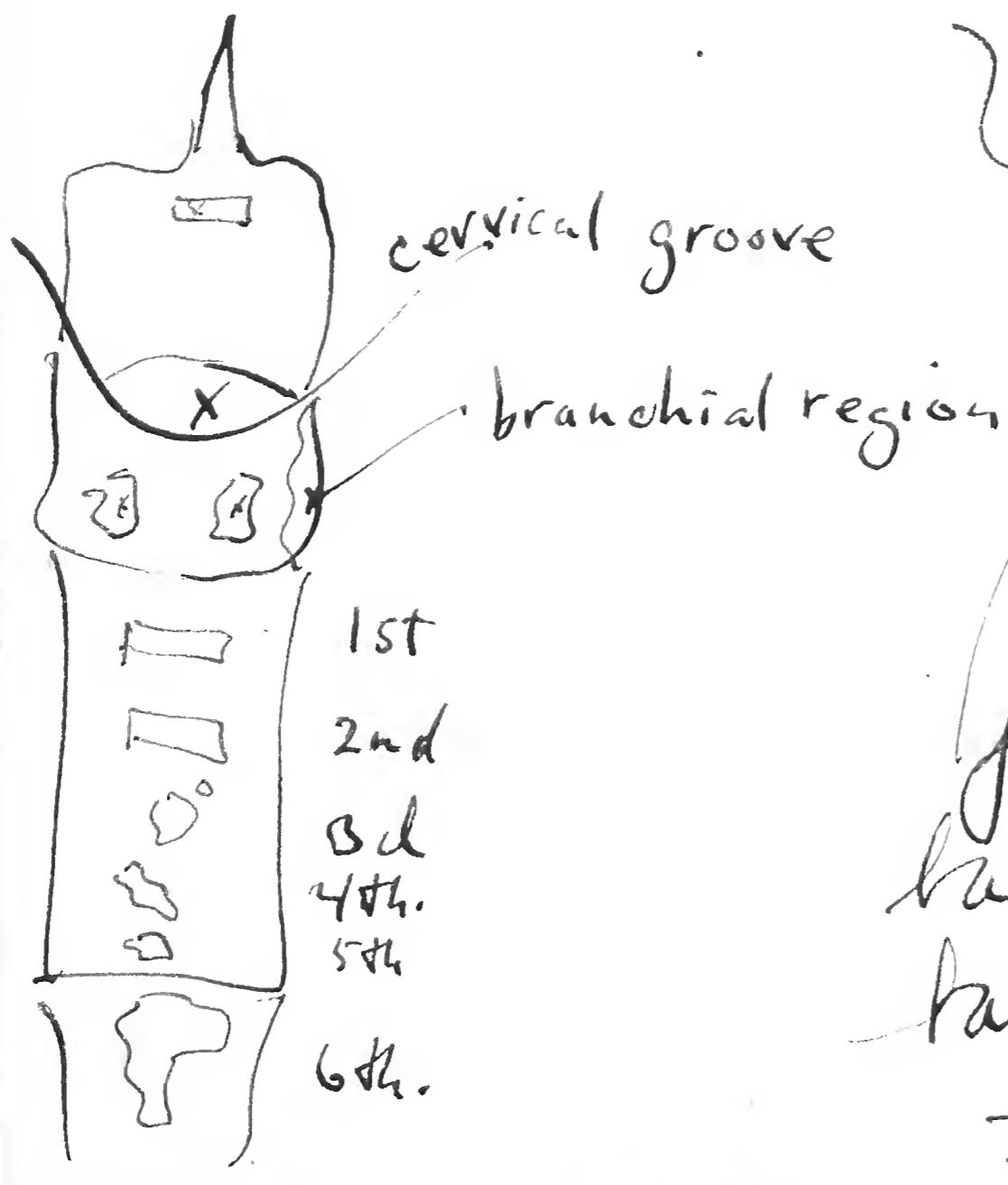
June 5 In lab. in morning On Bush Key  
rest in afternoon 2-5.

Got some amphipods and isopods, washed  
from eel grass debris brought up in  
seine in 4-4½ feet of water

On Bush Key reef got a little white  
chondrid, light ~~greenish~~ creamish-white,  
with light salmon tipped fingers, eyes dark,  
almost black brown, alga on back  
light malachite green

little crimson - <sup>corimine</sup> Burnt red Portomed  
on bottom of overturned rocks.

tip of nose and x areas white



All rest including  
eggs except fingers tips  
and basal part. of  
eye slabs. crimson x  
burnt carmine.

Antennal and antennular  
flagella distally white  
basal half with distinct  
bands of reddish

walked to south end of <sup>basally suffused with the</sup>  
steel & back with the sand. <sup>red.</sup>

~~June 5<sup>th</sup>~~ Helped. Songly open up fish stomach  
Fri. most of forenoon, dynamited fish  
 from just inside of reef.

Worked on them in afternoon & again  
 morning of 6<sup>th</sup> got some very interesting  
 things a *Cymothoë depressus*,  
 & *Processa* that I hadn't  
 seen before.

In all found four species new  
 to fauna

Worked at stomach contents till  
 dark & missed a most beautiful sun  
 set.

Walked around lower half of island  
 with all except Dr. Mann.

June 6<sup>th</sup> Bird Key reef in afternoon #25-\$  
fish stomachs all morning  
#25-\$

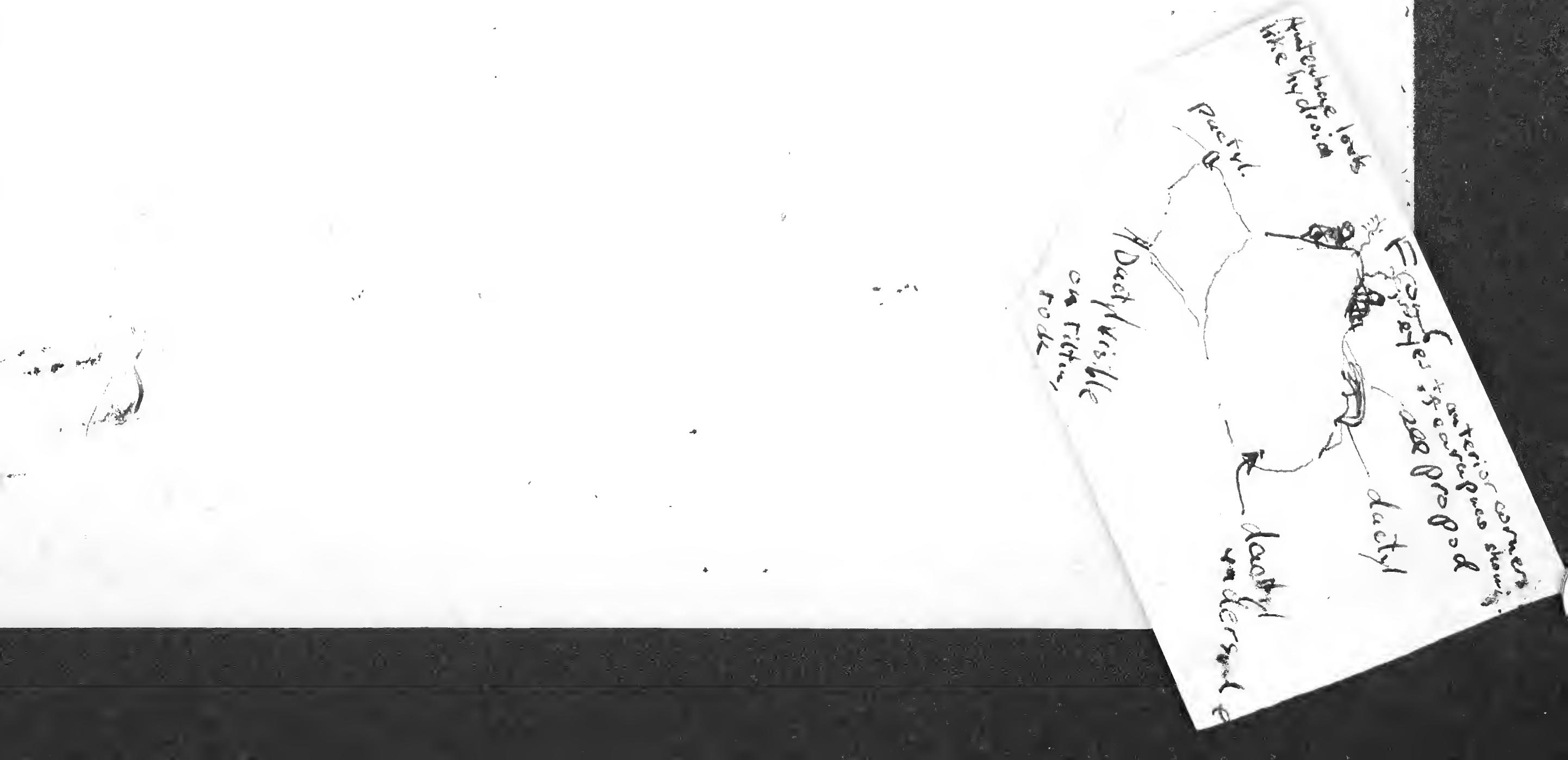
June 7 Another batch of fish stomachs  
worked at them all day  
Went over on Bird Key (Reef again)  
tried a few pictures of reef  
#25-6 + got in way back to supper.

June 8 Worked on fish stomachs all day  
took couple of photos + walked  
over a bunch of algae for  
Amphipods all afternoon

Picked up rock with  
vessel & forceps to transfer  
vegetation from jar to  
dish with sand held  
on rake. did not let go dredge  
rolling. have

June 7 Another batch of fish stomachs  
worked at them all day  
ended over at Bird Key (last again)  
tried a few pictures of reefs  
#25-6 + got on way back to supper

June 8 Worked on fish stomachs all day  
took couple of photos & sorted  
over a bucketful of algae for  
Amphipods all afternoon



1925

129

June 9

Put up another lot of fish stomachs  
 for study. Took most of forenoon  
 after writing letters to Ab. Clarence & Byers  
 before breakfast.

~~June 10 Another day on fish stomachs~~

June 10 Dredged with Dohrn. Left early before  
 7 a.m. Passed buoy out 8 a.m. put  
 at due S. of buoy east side channel.

Haul #205 Boat dredge ore at 4, 30 what 9.45 -  
 Boat dredge 30 fms - 31 fms. about 9 miles south  
~~38.1 fms.~~  
~~9 miles S.~~ fine sand, washed out shell frags.

Haul #206 Boat dredge ore 10.10; 35 fms. - 37 fms.  
 Boat dredge coarse sand bot. rough with  
 many Bryozoa. Got  
 a Dolomat-like thing I thought at  
 first was a Cymophilia = Ethusa  
~~mascarenica~~  
americana  
 carried little coral rock

Haul #207 Boat dredge up at 11.00 a.m. 37 fms.  
 Boat dredge 37 fms. Sponges galore, Bryozoan and  
 about 11 miles shelly sand and part full of  
 small sponges, kept for sorting over.

1925

June 10 Could

# Haul at

# 208, 11.50 Boat dredge out 50 fms.

Boat dredge

soft grey ooze quite cold to  
touch much colder than quite  
warm water.

about 12 miles west

Haul

# 209 Try out of otter trawl when put  
out depth was 50 fms at end of  
haul 8<sup>1</sup>/<sub>2</sub> fms. but net did not  
touch bottom no catch except  
one small zappa or turbot  
around 10 in. one curious looking Siphonophore  
length 8<sup>1</sup>/<sub>2</sub> fms & it fished fine.  
Fixed thistwice length of my thumb and about  
same dia.

Seemed to be made up as it were of a series of nested glooms with strand of peddid through middle with little bunch of red attack, but not appearing as conspicuous or many as in preserved spec. which the greater part has broken apart & separated.

June 10 cont'd

1925 about 13 miles  
2 miles

Haul # 210 Tried to get otter trawl (27 ft) on bottom at 87 fms sounding but it 27 ft trawl was left out so slow that by time it was hauled up we were in 45 fms as rounded at end of haul.

Very rough bottom. Gracilaria, crabs & Byssus, few algae. net was stripped for better haul from cork & lead lines ad latter was broken. Bottom was too rough for charact of net! hauled net up & got home by 7:30 for late supper.

— June 12, 1925 —

June 12/  
25-

Second and last days dredging <sup>yet</sup> for  
Isham for 1925.

Haul #

211

Boat dredge  
10 fms.

9.20 - 9.30 a.m. first of three  
hails from black, mid channel  
spur boy to east channel ~~but~~  
~~red~~ buoy.

From S1. to N2.

Muddy sand, algae, shelly rocks  
Alimedea, few living shells,  
2 Parthenopids

Haul #

212

Boat dredge  
10 - 8 fms.

by Ctenophora 2nd cross channel  
Haul 10 min to up at 9.40

Ran from 10 fms. at end of previous  
haul into 8 fms.

Muddy sand of very firm consistency

Haul #

213

Boat dredge  
8 - 5 fms.

Third and last cross channel  
haul at end was 5 fms. no more  
hails made because ground could  
be covered with much if necessary  
rocks bottom to which were attached  
lot of Gracilaria, long slender  
algae.

Amphioxus

June 11 - 1925

Red N. 2

Haul #

214

Boat dredge  
16 fms.  
 $5\frac{1}{2}$  ...

Ran forty miles south of Bony  
Net hauled from 9.55 - 10.10.  
shelly sand, lots of foraminifera  
about  $5\frac{1}{2}$  miles south

Haul #

215

Boat dredge  
18 fms  
about  $6\frac{1}{2}$  miles S.

On 18 fms. net hauled from 11.20  
- 11.40 a.m. Great mass of  
algae several buckets full.  
among matted tangle had quite  
number of broken coral rocks.  
This kind of bottom is what hills called  
Red Mackerel banks, where they fish for red snappers.  
net down at 12<sup>00</sup>

Haul #

216

Boat dredge  
20 fms.  
7 miles S.

Bottom coarse grey sand shelly,  
few sponges. 2 Amphioxus?  
(Amphioxus 16g)

Haul #

217

Boat dredge  
25 fms.  
8 miles

net hauled 12.35 - 12.50 = 25 fms  
Great sponge haul sponge  
of all kinds, shrimp & crabs  
in same, also red oysters abu.

Haul #

218

Boat dredge  
45 fms.

about S.W. of Bony 45 fms.  
- soft grey, cold ooze + stronger  
transparent worm tubes.

Buoy #  
219  
3ft Blake  
Trawl.  
45 fms

June 11 cont'd

west of 218 : Depth 45 fms. sand  
at beginning and end.  
Spp grey cold ooze.  
not much life & some very  
not much left after washing

Buoy #  
220  
3ft Blake  
Trawl.  
30 fms.

bar ~~toxic~~ in 30 fms from 3.45-40 p.m.  
got ticks about 6.00 passed  
Dory (red) about 5.30?  
2 spp great ooze & some strings.  
when washed out considerable  
shell frags left. & some  
~~live~~ live shells

June 12:

In lab. forenoon writing up  
these last two days notes such as the  
age, and feeding stuff  
collected. Afternoon back in  
fish stomachs.

June 13

Saturday

Sayr evening Miller brought in  
a Physalia. Kept it in its right  
place not phosphorescent ground  
when I first took up it in dark  
near 8:30 o'clock saw when  
united a stung up of  
course this is but one isolated  
case prob it was no luminous  
any where or in any sense.

The blue at Pointe Riche and =  
most intense by acnt Blue  
judging out to antwerp the anterior  
zone in folds of crest.  
edge of green. Rose purple  
and so shorter tentacles below  
mixing with blue  
long tentacles dark amethyst  
purple or almost Dahlia purple

June 13 Measured fish and opened stomachs and  
intestines all morning. Searched balance of  
June 9 fishes to date have looked thru  
264. Knocked off at 3 P.M. to  
write this and some letters.

June 13

Mr. Mann Birth day party made  
candles in test tubes. Corks made  
cavities & put flag over door, also  
special punch which we ordinarily  
do not have for supper.

Chester got a conch with a  
Petrochirus in it & also got  
two Porcellana sagana's out of  
it first I had seen larger of  
two here between dragon's blood  
and coral red with whitish spots  
smaller liver brown, with spots more  
nearly clear white.

June 14

Sunday 6:30 a.m. wrote letter last night & a  
little more this morning to Stevins. After  
the Lohm goes will be a day of fish  
stomachs, all day till bed time.

June 15

Monday All day on fish stomachs

June 16

Tuesday All day on fish stomachs; off for 2-4  
Lohm arrived. Read mail  
One of these fellows has all their second class  
mail sent down. Have a nice morning & passes time

June 16 Valentine collected erosa. on Bird Key  
 reef = Vinaceous Cinnamon generally  
 run Vinaceous & Buff Pink with muddles  
 brown (obscured) bars on legs, and a  
Cheliferus } middle of ventral  
 region.

Shoe prella + some benthos epifauna  
 tube Cor, Microphyll & E. granaria  
 & two Smodiculus.

<u>affinis</u> Yellow snapper griseus Gray snapper	<u>Scholema</u> per rocks? + <u>Turtle</u> sand bot	<u>Craugastor</u> , <u>Petrolisthes</u> . ca. 125-1 for 30-50 for Gray Mithrax
		180 (200)-13 for 6

Portunids (chiefly depressions)  
 5 - 1 for yellow snapper.

Euryphax 2 - none for yellow.  
 Albunea 1 - "  
 Pseudosquilla 3 or 4 - 1 " yellow.

Yellow Grunts must feed  
 around rocks  
 did I mean grunts  
 here a snapper.

Yellow snapper = rock  
 Grey snapper = sand  
 bottom

June 17

The day about 4.30 or 5 pm I took  
it to aquarium, it burrowed right  
under thus evening about 9 o'clock  
a went out to look at aquarium.  
*Portunus depressipons* had its half  
(3/4) eaten (bottom legs all gone + shell  
empty except at extreme hinder end.)

*Calappa* supports itself on last two  
pairs of legs while eating passing food  
up with 2 + 3d pairs chelipeds merely  
holding rests on flat of edge of pot so  
as not to get them sinking in sand.

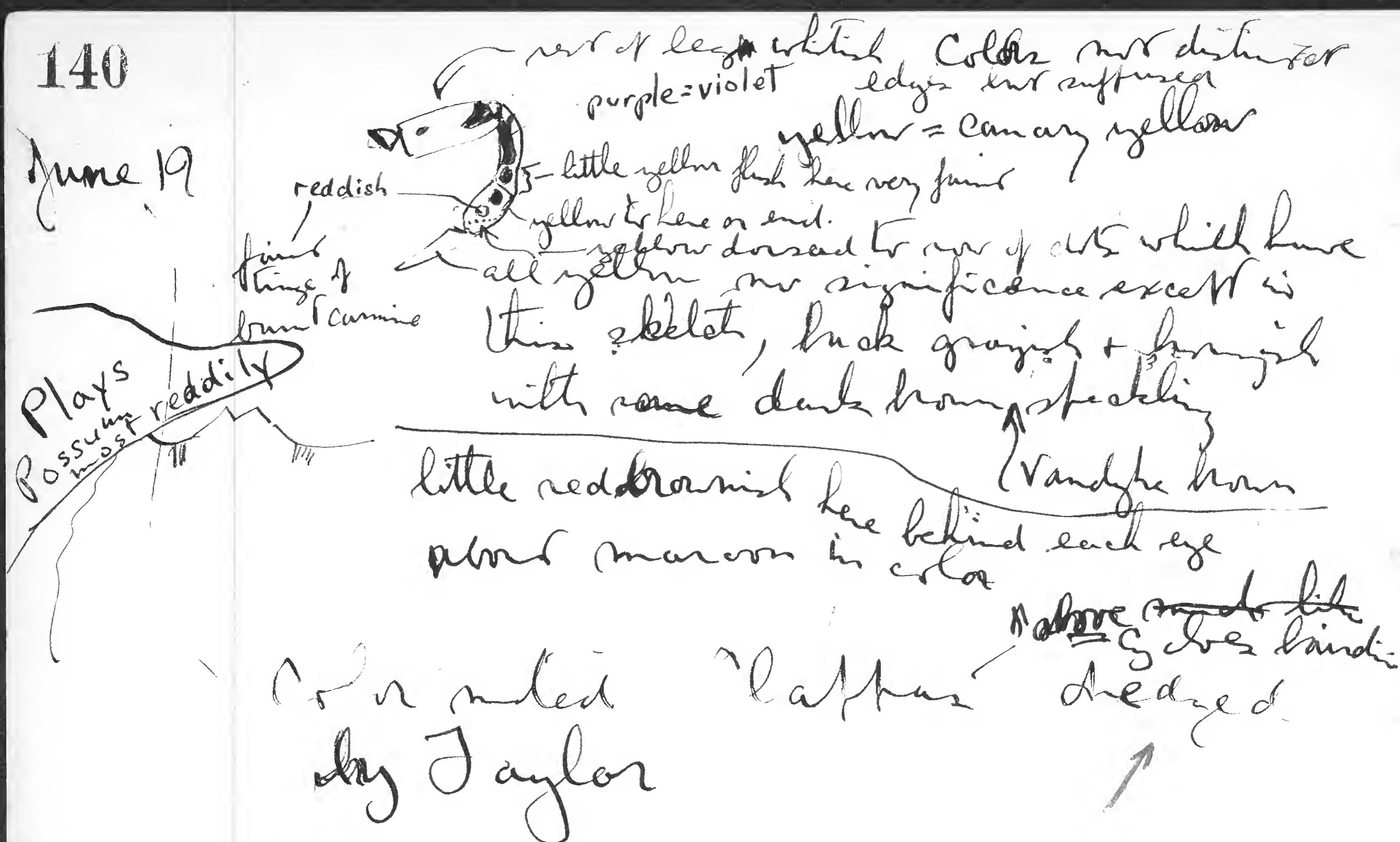
# When walking legs as very tactile in  
fun dim feeling + testing out ground clean  
as crab moves, <sup>+ nervous</sup> tickling much  
antennules

June 17 Dark working dredging 3 miles out  
of Snapper Head in 10-45 foot depth  
should got nice lot of crabs.

th. Smalley & I used diving bird  
for rocks & ~~bottle~~ grass roots.  
Tr get food fishes feed on.  
fairly successful though no large  
ones of Petholites?

June 18 Fish stomach all day.

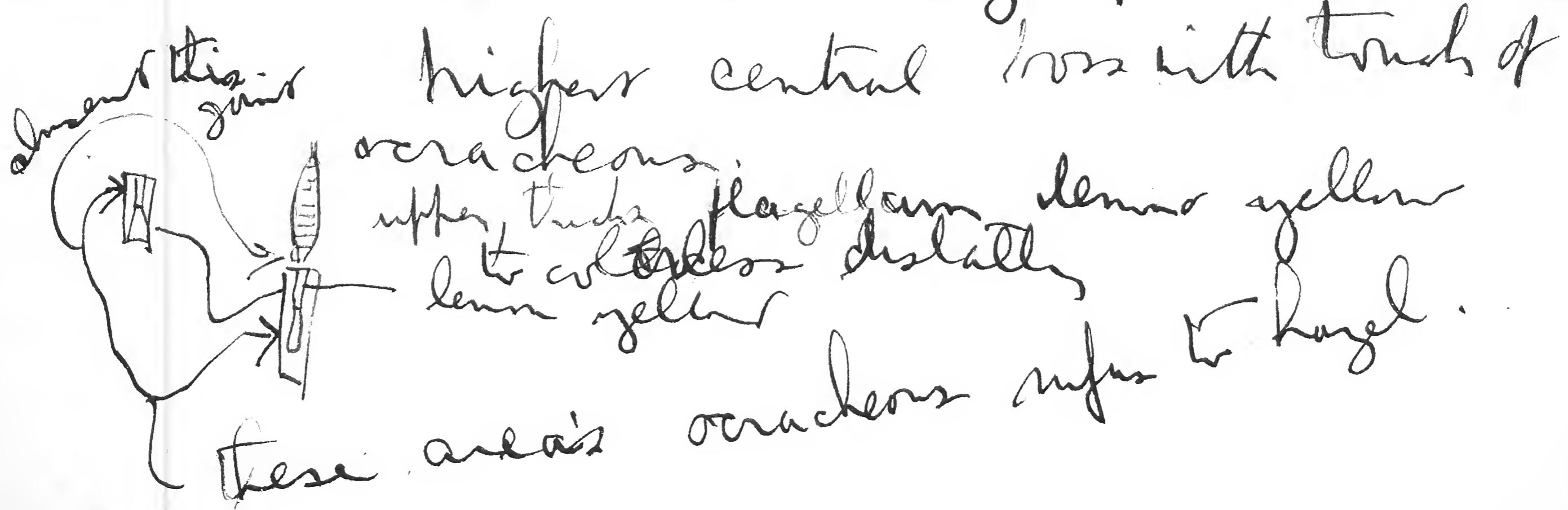
June 19



## Small Callafta



reddish suffusion + markings in shape of speckling of liver brown with tinge of Claret brown.



June 19,  
1925

Color notes on Synalpheus brevicarpus

141

June 19 Bright Synalpheus obtained by  
Hector from sponge off ~~Bonito~~  
Male +  
Female Brush Key Reefs on June 18  
Spotted  
together



General color orange chrome. Darkest on central area of carapace. Lighter on abdomen. Steadily interdigit on spines where it gets cadmium red like bright red some way at extreme hind end wh. distal third of legs & tail fan is almost colorless just before which is a sort of transparent orange yellow chela distally more yellow almost cadmium yellow marginally brown being orange chrome.

Pereiopods of antennules & antennae, colorless bluish whitish, ditto.

June 19/ Taylor dredged down towards old  
 1/25 wreck S.W. of Dryge Head. In about 20 ft  
 water got 4 Portunids at first haul.  
 Two smaller ones were described.  
 Smallest much like two larger.

sand grey closely mottled

lateral spine spot



central mark scratches surface

Padella transparent ad

most of legs. Dactyl of last arth-

rites purple like depressions near  
 joint similar to Ceratides white

hump mottled with purple spot at articulation and tip  
 finger lights with purplish fringe of hair.

and suprins outer surface) tit ad lower edge ad inside purple  
 spot on hand at articulation ditto like  
 in depressions

black hair = dove brown

lateral spine long



T Hazel almost pinkish inside of hand white  
 upper fringes with black hair on

inside

Tops of joints  
 tops of legs with few  
 spectacles of French  
 blue making them look  
 purple flushed or tinged

back mottled with dove brown  
 and ~~dark~~ light brown mottles in some  
 places

maxillipeds on upper edge at articulation of  
 both with <sup>small</sup> circular purple spot.

Taylor coll.

143

June 19, 1985

mostly

metallic  
unidescant  
apple green  
with yellow  
points

back greyish  
grey brown  
finer + more  
close together  
mottling  
mostly  
even  
number  
with some  
+ fewer larger  
markings  
of blistre

markings on  
back large  
+ much  
white below

*Flagella pale transparent*, flesh whitish scattered flesh  
flesh with little golden

dots

yellow running  
into the red before  
purple. white stripe



royal purple

red

white

pale  
whitish  
at middle  
sort of  
bright shin



red + white  
stripes

scattered vermilion x poppy  
red to white & fades x poppy  
on lower side

post part surface whit.

and part mostly same  
with dashes (exclamation  
points of the red

stripes on legs

narrow and proximally  
& distally, white between



borders out making at little distance  
ends of joints look as though they had whitish  
bands

same thing happens at middle  
of length of post border which seems  
almost to have white accumulations around  
its middle, at these points to the  
pinkish suffusion of the white does not affect  
the pure white areas that are scattered over making

June 19 Valentine when alcyonaria collecting off first rocks below Sub. dock ~~and about~~  
 4-4½ feet water just before sunset.  
 Saw the Callappa gallus have concealed  
 in sand. Presumably like as many  
 crustacea they are nocturnal & so probably  
 can be more easily found toward sunset.

June 19 Taylor dredged Portunids and  
 two larger are colored like smaller  
 in addition on inside both fingers are  
 purple tinged. and there is a small  
 rosy tinge just at  
 articulation of movable finger corresponding  
 to other back seems sort of decolorated  
 light tuberculations are whitish and color is  
 more speckled or than appeared in smallest one  
 Second ambulacrae colored like first little  
 fainter, 3d still fainter  
 \* Spider crab = <sup>chela</sup> Vinaceous Buff. + Pin like buff.  
 body <sup>2/3</sup>  
 Xanthid chelae, surface to ferruginous  
 carapace grayish due to obscuring fine  
 piece of *Licynotus* attached.

June 20 Fish stomachs give me a mesh  
 of a tow net sample. Off reef near wreck west  
 of Sugarhead Key *Tetragonus* June 20<sup>10. A.M.</sup> Bright wing  
 got in with my stomach  
 not labelled.

{ Off reef near wreck  
West of Loggerhead Key  
Tortugas, Florida. June 20/1925  
10 a.m. Bright, Windy

Saggy Gullwings

145

June 21

Fish stomachs all day.

June 22 Fish stomachs all day + evening crowded  
in and caring for specimens until  
this a.m. right after breakfast.  
Got up at 4<sup>30</sup> as boat was waked.  
Up by Hexter & Clark who took us  
out to make a few trawl hauls.  
Made one 7 min. tow from S.E. of  
old wreck S.W. of Soggyhead Key  
to old wreck. Then made a  
trawl haul with new small rock  
dredge three hills built on the lines  
of the Puget Sound one, then  
across the shoal off extreme  
south end of island Soggyhead.  
Then steamed up to white shoals  
Grey & made a tow net haul 2<sup>1/2</sup>  
10 mins. running north of that &  
dredged back. Then made a  
~~trawl~~ and the dredge haul  
on eel grass just N. north end  
of Island. Got one large thick cut  
a barrel much fast

- Fore  
400<sup>00</sup>
- June 23 Fish stomachs all day <sup>Opened fish in</sup>  
~~Tax'd For Taylor in afternoon~~
- June 24 Attempted to get up early to dredge &  
tarred boat though misunderstanding.  
Charly and Lester failed to wake me.  
Change alcohol of jars & at 8.45  
began on fish stomachs again.
- 25 Fish stomach
- 26 "Packing." In afternoon at 2<sup>00</sup>
- 27 { tried out dredge & watched room:  
Herring hood. Mill dredge worked best  
9 ft water, 8 fms rope  $\frac{3}{4}$  inch at ~~1/2~~ speed  
~~2 miles per hour~~
- { Big dredge with <sup>rock pattern</sup> 6 fm rope  
9 ft water at half speed  
4 miles per hour worked O.K.  
little dredge not so good
- Small rock dredge built by mill  
to fit in small boat was too light  
to be of much use. Too light and  
middle cross bar tended to trip the  
sealpage 140

"It ain't goin to rain no more" night of the 27. Had quite a squall & heavy rain. Scariest I believe I'd seen at Fernand in two seasons.

Leads which ordinarily didn't split ~~the~~ light rains showed up every where, slight one over my left ankle which a towel on the mosquito net took up though just of there corner quite a lead formed down on the foot. But Valentine it came down so on his ~~bed~~ that he was shenched, had to take off his pajamas and dry off his body and on his bed were at least two great big puddles that made one enough to soak up them miller joints. In dark light close to the & all three of us had a good laugh when at about the worn joint miller said "It ain't goin to rain no mo."

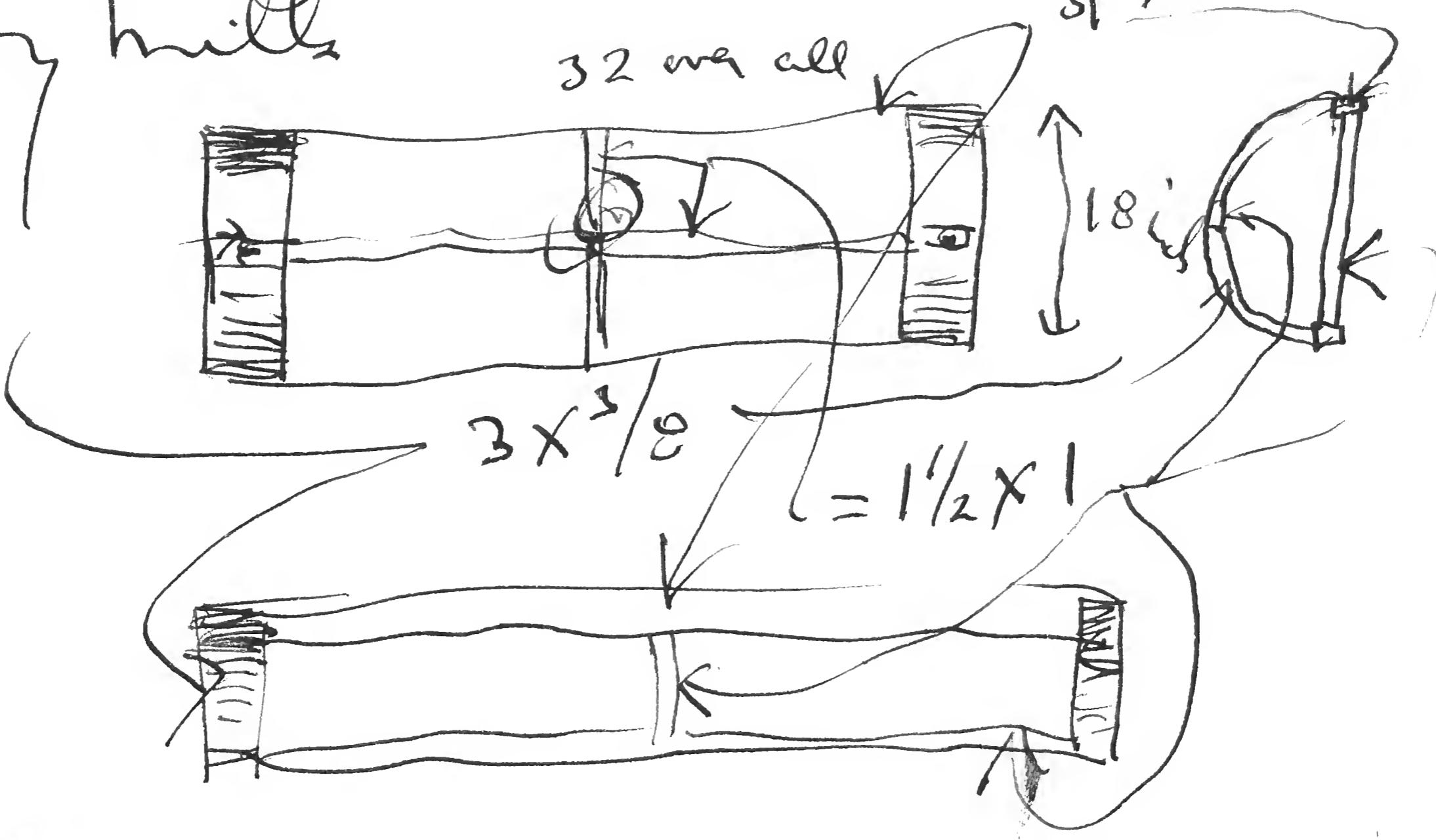
J.M. Valentine Valentine had to wait till the rain was over then turn his matress & put a his book note to sleep. Night was cool enough thereafter for it.

carried

June 27 & tender block sprung too much  
 more line + heavier weight might  
 have helped but fact remains  
 that smaller dredge proved most  
 satisfactory

Big (or larger) rock dredge built  
 by mills

32 over all

 $\frac{3}{8} \times 2$ 

$$\frac{3}{8} \times 2 = 1\frac{1}{2} \times 1$$

Gulf Jetty	
Taxi	1.20
Blimonicos	3.05
Break.	.90
Lunch	1.50
Supper	1.80
Break.	.85
Porter	

— pc. gal. metal riveted on with  
 punched in & lash net & go

X Some off  
 by time + 50

R.R. Tick. 48.75  
 Pullman: 1.50  
 Total 63.75